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Image RCE/2800

# REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Address to:  
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P. O. Box 1450  
Alexandria, VA 22313-1450



Application Number	10/092,683
Filing Date	March 6, 2002
First Named Inventor	Man Hon Cheng
Group Art Unit	2827
Examiner Name	James M. Mitchell
Attorney Docket Number	SC11850HP

This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO).

1. Submission required under 37 C.F.R. 1.114 Note: if the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
  - a. ☐ Previously submitted. If a final Office Action is outstanding, any amendments filed after the final Office Action may be considered as a submission even if this box is not checked.
    - i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on \_\_\_\_\_.
    - ii. ☐ Other \_\_\_\_\_
  - b. ☒ Enclosed
    - i. ☐ Amendment/Reply
    - ii. ☐ Affidavit(s)/Declaration(s)
    - iii. ☒ Information Disclosure Statement (IDS) and copy of cited references
    - iv. ☒ Other (1) Submission and (2) Change of Correspondence Address and Return Postcard
2. ☐ Miscellaneous
  - a. ☐ Suspension of Action on the above-identified application is requested under 37 CFR 1.103(c) for a period of \_\_\_\_\_ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.117(i) required.)
  - b. ☐ Other \_\_\_\_\_
3. ☒ Fees The RCE fee under 37 C.F.R. 1.117 (e) is required by 37 C.F.R. 1.114 when the RCE is filed.
  - a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. **502117, Motorola, Inc.**
    - i. ☒ RCE fee required under 37 C.F.R. 1.17(e)
    - ii. ☒ Extension of time fee (37 C.F.R. 1.136 and 1.17)
    - iii. ☐ Other \_\_\_\_\_
  - b. ☐ Check in the amount of \$ \_\_\_\_\_ enclosed..
  - c. ☐ Payment by credit card (Form PTO-2038 enclosed)

## SIGNATURE OF APPLICANT, ATTORNEY OR AGENT REQUIRED

Name (Printed/Type) Michael P. Noonan Reg. No. 42,038  
Signature *[Signature]* Date DECEMBER 3, 2003

## CERTIFICATE OF EXPRESS MAILING

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Name Patricia Parks Signature *Patricia Parks*

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SC12206MP

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S)      Man Hon Cheng *et al.*      GROUP ART UNIT:      2827  
APPLN. NO.:      10/092,683      EXAMINER:      James M. Mitchell  
FILED:      March 6, 2002  
TITLE:      MULTI-ROW LEADFRAME

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**Certificate of Transmission under 37 CFR 1.8**

I hereby certify that this correspondence is being  
facsimile transmitted to the Patent and Trademark  
Office

on December 3, 2003

Patricia Parks  
Patricia Parks

**SUBMISSION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Submission is submitted with an attached Request for Continued  
Examination within one month of the Advisory Action mailed November 3, 2003 in the  
above-identified patent application.

**REMARKS**

Claims 1-5 and 8-17 are currently pending. Reconsideration and allowance of the claims are respectfully requested.

Claims 1-5, 8, 9 and 11-14 stand rejected under 35 U.S.C. §102 as being anticipated by Osada. An earlier Office Action states that the small, spaced projections 25<sub>1</sub> extending from the paddle ring 25 terminate in a first row of terminals and that the leads 28 form a second row of terminals. Applicants respectfully traverse this rejection.

The present application is directed to a multi-row leadframe. The leadframe includes a first row of terminals that, prior to singulation, are connected to and extend outwardly from an outer perimeter of a paddle ring. A second row of terminals surrounds the first row of terminals. The terminals of the second row are connected to a connection bar (prior to singulation). The first row of terminals is also connected to the connection bar at a corner thereof. The paddle ring may include inner and/or outer projections that help mechanically lock the paddle with an encapsulant (see Specification, Para. 29).

FIGS. 2 and 3 show the leadframe with the first row of terminals 32 singulated from the paddle ring 22 and the second row of terminals 34 singulated from the connection bar 78 (FIGS. 9 and 10). FIGS. 9-10 show the leadframe prior to singulation (separation of the first row of terminals from the paddle ring and separation of the second row of terminals from the connection bar).

Referring again to Osada, the projections 25<sub>1</sub> that extend outwardly from the paddle ring 25 of Osada are not terminals or leads. Rather, as explained in the Osada Abstract, the projections fit between leads and are provided for the purpose of preventing resin bleeding during molding operation. The Examiner indicates that “any metallic material capable of permitting electrical interconnection is a terminal” and that the Osada protrusions are conductive, and are therefore terminals. However, using the term “terminal” so broadly would seem to make any metal element of a structure a “terminal,” thereby removing meaning from the very word “terminal” by equating it with “metal.” Such a definition ignores the interconnectional nature of the “terminal” structure, which interconnection is not taught by Osada. Thus, to equate the projections to the first row of

terminals of the present invention is improper because it ignores the teaching of Osada, the projections 36, 28 of the present application, and the even definition cited by the Examiner.

Furthermore, to say that the leads 28 of Osada form a second row of terminals is incorrect too. The leads 28 form the only real "row" of terminals around the paddle ring 25 of Osada. Finally, even if the leads 28 could be equated with the second row of terminals of the present invention, the leads 28 extend outwardly from the ring, whereas the outer row of terminals of the present invention extend toward the paddle ring from a connection bar 78 (FIG. 10). Because Osada discloses neither two rows of terminals nor a connection bar, and for the other reasons discussed above, independent claims 1 and 12 are allowable over Osada.

Claims 2-5 and 8-11 depend from independent claim 1 and are allowable for at least this reason. Claims 13-17 depend from independent claim 12 and are allowable for at least this reason.

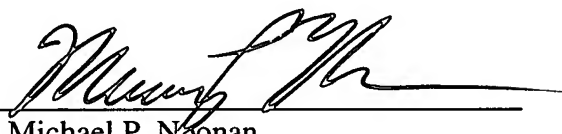
In view of the foregoing remarks, it is respectfully submitted that the present application, including claims 1-5 and 8-17, is in condition for allowance and such action is respectfully solicited.

Respectfully submitted,

SEND CORRESPONDENCE TO:

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Law Department

Customer Number: 23125

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